

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L16	97	spacer with (camera or lens) module	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/22 09:32
S1	93	US-5678070-\$.DID. OR US-20050286141-\$. DID. OR US-5950021-\$. DID. OR US-4864337-\$. DID. OR US-5345283-\$. DID. OR US-5510868-\$. DID. OR US-5900992-\$. DID. OR US-6160583-\$. DID. OR US-4422740-\$. DID. OR US-4477167-\$. DID. OR US-4483603-\$. DID. OR US-4542972-\$. DID. OR US-4764784-\$. DID. OR US-4857947-\$. DID. OR US-4952965-\$. DID. OR US-5239415-\$. DID. OR US-5250976-\$. DID. OR US-5293193-\$. DID. OR US-5307103-\$. DID. OR US-5412443-\$. DID. OR US-5418650-\$. DID. OR US-5432575-\$. DID. OR US-5438387-\$. DID. OR US-5444510-\$. DID. OR US-5539490-\$. DID. OR US-5546233-\$. DID. OR US-5574526-\$. DID. OR US-5634142-\$. DID. OR US-5664240-\$. DID. OR US-5675441-\$. DID. OR US-5678100-\$. DID. OR US-5749003-\$. DID. OR US-5768636-\$. DID. OR US-5774748-\$. DID. OR US-5844726-\$. DID. OR US-5956533-\$. DID. OR US-5980121-\$. DID. OR US-5983033-\$. DID. OR US-5999750-\$. DID. OR US-6047132-\$. DID. OR US-6064826-\$. DID. OR US-6086266-\$. DID. OR US-6122116-\$. DID. OR US-6330398-\$. DID. OR US-6339682-\$. DID. OR US-6879445-\$. DID. OR US-7061689-\$. US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	ADJ	ON	2008/07/18 11:22	

		DID. OR US-7233449-\$. DID. OR US- 20050052560-\$.DID.				
S2	720	396/55	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:29
S3	4	S2 and manufactur\$4 near10 lens adj barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:29
S4	0	S2 and mthod adj manufactur\$4 adj lens adj barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:30
S5	0	S2 and mthod adj manufactur\$4 adj lens adj drive adj (device or unit or system)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:30
S6	0	S2 and method adj manufactur\$4 adj lens adj drive adj (device or unit or system)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:31
S7	7	method adj manufactur \$4 adj lens adj drive adj (device or unit or system)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:31
S8	255	396/55 and lens adj driv \$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:38
S9	20234	lens adj driv\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:38
S10	2441	lens adj barrel near (mov\$4 or motion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:39
S11	9578	regulat\$4 adj part	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:39
S12	10905	protrus\$4 adj (part or member)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:40
S13	19317	magnetic adj (means or member or part or section)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:40

S14	0	case boady	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:41
S15	24269	case body	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:41
S16	6087	S15 and (cylindrical or circular)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:41
S17	13669	female screw and male screw	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:42
S18	537	S9 and S10	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:42
S19	1	S11 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:43
S20	1	S12 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:43
S21	6	S13 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:43
S22	4	S15 and S18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:45
S23	43	S16 and S17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:47
S24	0	case adj body near10 (two or S2) adj (parts or portions or frames or body)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:50
S25	47	lens adj barrel near10 (two or S2) adj (parts or portions or frames or body)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 11:54
S26	2	jp-2004304566-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 12:13

S27	2	jp-2002374436-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 12:13
S28	223	magnet and coil and lens holder and lens and lens barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/18 12:56
S29	5	("4596449"   "4605286"   "6800970"   "7206145"   "7221526").PN. OR ("7359631").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/07/18 13:00
S30	0	JP-2002374436-\$.frpn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:01
S31	0	JP-200237443.frpn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:02
S32	0	"200237443".frpn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:02
S33	0	"2002374436".frpn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:02
S34	0	"2002374436".frpn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:02
S35	0	"2002-374436".frpn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:02
S36	2	JP-2002374436-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:03
S37	105277	"359"/\$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:04
S38	55	amakasu-mikio.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:07

S39	98831	"348"/\$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:16
S40	0	S37 near S39	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:16
S41	9396	S37 and S39	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:17
S42	5065	lens driv\$4 (device or apparatus or system)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:17
S43	21388	"396"/\$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:18
S44	879	(S37 or S39 or S43) and S42	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:18
S45	3172	(mov\$4 lens or lens adj barrel) and lens adj holder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:19
S46	108	S44 and S45	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:19
S47	1469	(lens holder or lens adj barrel adj holder) near4 magnet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:21
S48	2519	(lens holder or lens adj barrel adj holder) with magnet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:21
S49	1003	(lens holder or lens adj barrel adj holder) adj4 magnet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:21
S50	1303	(stationary or fix\$4 or holder) adj body with magnet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:23
S51	960	(stationary or fix\$4 or holder or second) adj body near4 magnet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:23

S52	1771	(stationary or fix\$4 or holder or second) adj body with magnet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:24
S53	560	(stationary or fix\$4 or holder or second) adj body adj4 magnet\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:24
S54	42	S46 and S49	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:25
S55	0	S54 and S53	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:25
S56	2	S46 and S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:26
S57	3	("20040012695"   "6348948"   "6559888").PN. OR ("6853808").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/07/21 12:32
S58	22	S47 and S50	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:39
S59	21	S47 and S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:39
S60	1155	magnet\$4 adj3 (disposed or attached or fix\$4) near5 (stationary or fix\$4 or holder or second) adj (holder or body or frame or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:45
S61	367	magnet\$4 adj3 (dispos \$4 or attach\$4 or fix\$4) near5 (lens holder or lens adj barrel adj holder)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:46
S62	12	S60 and S61	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:47
S63	114	lens barrel and lens barrel holder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:52

S64	0	magnet (comprise or attach\$4 or fix\$4) with lens barrel holder	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:53
S65	6	magnet adj4 (comprise or attach\$4 or fix\$4) and S63	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:53
S66	3	S44 and S63	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 12:56
S67	254	lens drive device	US-PGPUB; USPAT	ADJ	ON	2008/07/21 12:57
S68	87	lens drive apparatus	US-PGPUB; USPAT	ADJ	ON	2008/07/21 12:57
S69	222	lens drive system	US-PGPUB; USPAT	ADJ	ON	2008/07/21 12:58
S70	12029	(lens adj barrel or lens-barrel)	US-PGPUB; USPAT	ADJ	ON	2008/07/21 12:58
S71	89	S69 and S70	US-PGPUB; USPAT	ADJ	ON	2008/07/21 12:58
S72	8341	(lens holder or len-barrel holder)	US-PGPUB; USPAT	ADJ	ON	2008/07/21 12:58
S73	89	S69 and S71	US-PGPUB; USPAT	ADJ	ON	2008/07/21 12:59
S74	1090	S70 and S72	US-PGPUB; USPAT	ADJ	ON	2008/07/21 12:59
S75	7	S67 and S74	US-PGPUB; USPAT	ADJ	ON	2008/07/21 12:59
S76	979	magnet with S72	US-PGPUB; USPAT	ADJ	ON	2008/07/21 13:03
S77	14	magnet adj (attach\$4 or disposed) S72	US-PGPUB; USPAT	ADJ	ON	2008/07/21 13:04
S78	329	magnet adj (attach\$4 or disposed) and S72	US-PGPUB; USPAT	ADJ	ON	2008/07/21 13:04
S79	138	(S37 or S39 or S43) and magnet adj (attach \$4 or disposed) and S72	US-PGPUB; USPAT	ADJ	ON	2008/07/21 13:05
S80	107	case body with magnet	US-PGPUB; USPAT	ADJ	ON	2008/07/21 13:13
S81	1119	359/824	US-PGPUB; USPAT	ADJ	ON	2008/07/21 13:15
S82	9	"5572372"	US-PGPUB; USPAT	ADJ	ON	2008/07/21 13:23

S83	10	"5572372"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 13:23
S84	1119	359/824	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 13:24
S85	619	(359/824).OCLS.	US-PGPUB; USPAT	OR	OFF	2008/07/21 13:24
S86	359	(359/696).OCLS.	US-PGPUB; USPAT	OR	OFF	2008/07/21 13:29
S87	0	("55and57").PN.	US-PGPUB; USPAT	OR	OFF	2008/07/21 13:30
S88	51	S85 and S86	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 13:30
S89	2	(spacer or member) with sandwich\$4 adj4 between (first adj portion and second adj portion)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 17:54
S90	101	(spacer or member) with between adj4 (first adj case and second adj case)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 17:54
S91	57	(spacer or member) with between adj4 (first adj holder and second adj holder)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 17:55
S92	38	(spacer or member) with between adj4 (first adj holder with second adj holder)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 17:57
S93	0	(spacer or member or plate) with interposed adj4 (fixed member with lens adj holder)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:00
S94	4434347	(spacer or plate or stopper)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:01
S95	49	assembl\$4 lens driv\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:01
S96	30	method near3 manufactur\$4 adj lens adj driv\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:02



S97	36	S94 and S95	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:02
S98	9	S94 and S96	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:02
S99	1	S96 and (S90 or two portions)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:08
S100	27	S96 and (S90 or two frames or holder or portion or case)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:09
S101	525	spacer and (camera or lens) module	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:14
S102	464	S101 and (assembl\$4 or manufactur\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:15
S103	7	S102 and pull adj out	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:15
S104	3189	(remove or pull adj out) adj3 spacer	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:20
S105	9529	camera module or lens module	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:20
S106	1	S104 and S105	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:20
S107	36993	camera module or lens module or lens barrel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:22
S108	4	S104 and S107	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:23
S109	2	"20040207745"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 18:25

S110	2	"20040207745"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/07/21 19:11
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